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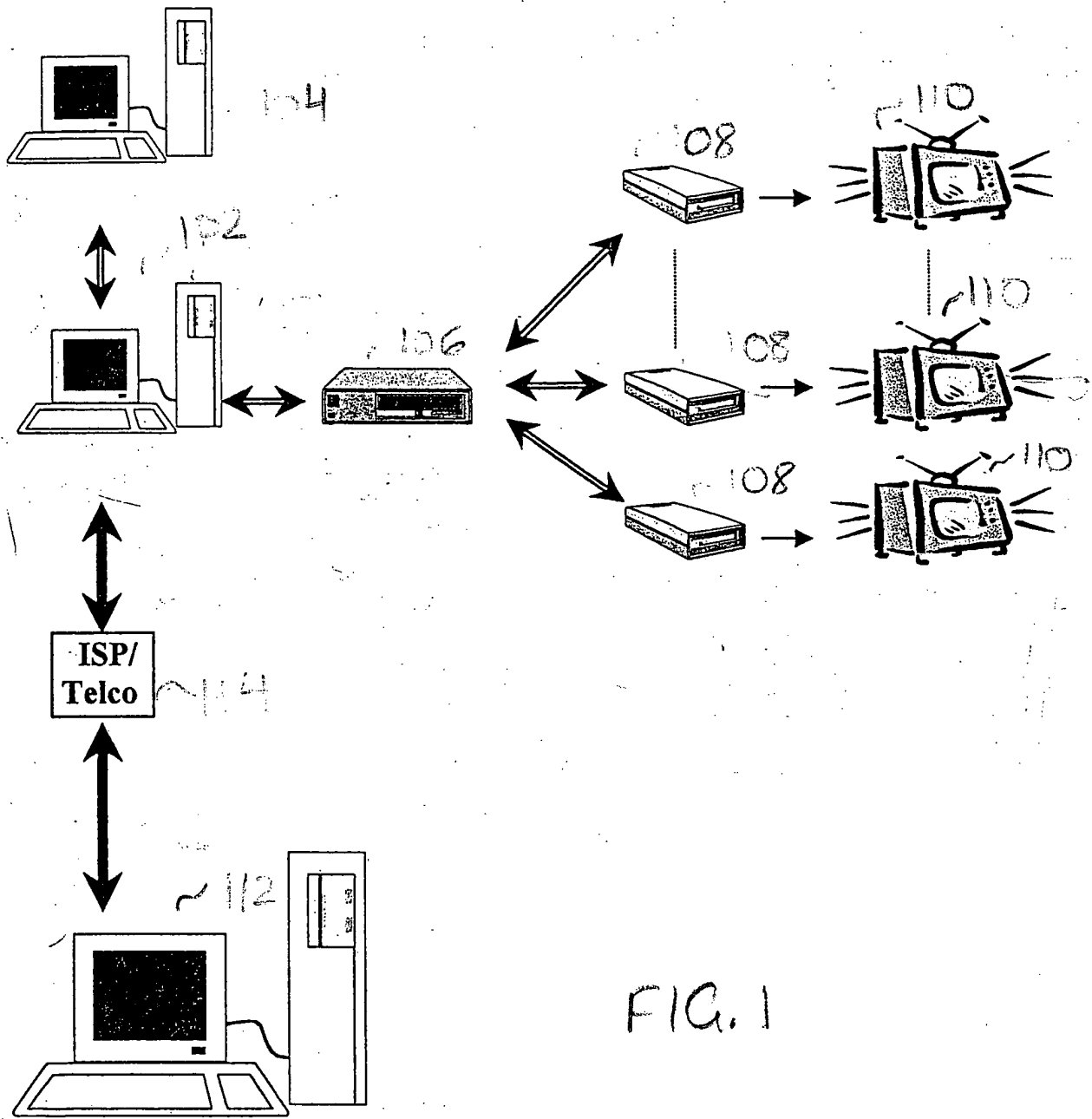
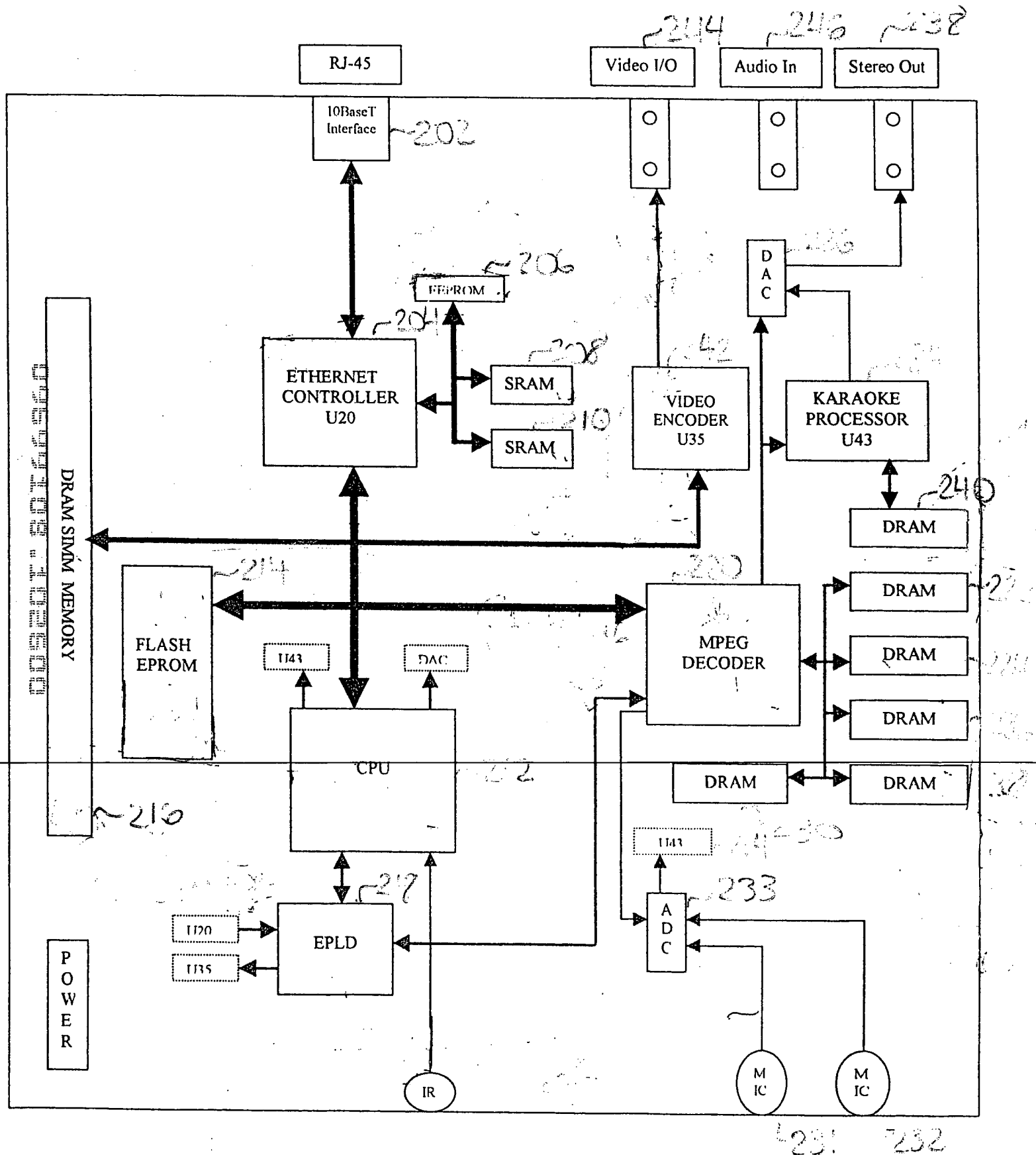


FIG. 1

FIG. 2
NEVCO VOD/KTV Set-top Box Board Layout



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n 304

306

✓ 302

FIG. 3A

✓ 308

310

312

FIG. 3B

IR REMOTE CONTROL INSTRUCTIONS

The following diagram is the IR remote control key positions.

402 404 406

TV/VIDEO	NEXT		ENTER
1 414	2 416	3 418	VOL + ~456
4 420	5 422	6 424	VOL -- ~458
7 426	8 428	9 430	ECHO + ~460
NTSC/PAL	0 413	RESET	ECHO -- ~462
	↑ 432	410	FADER ~464
← 436	View/Menu 412	→ 438	PITCH ~466
	↓ 434	SEEK 448	HARMONY ~468
KEY 450	KEY N 454	KEY 452	MUTE ~470
SLOW	STEP	PAUSE	PLAY ~440

408

446 444

Main Control Keys:

NTSC/PAL – Switches between NTSC and PAL mode. Default is PAL mode after power-up.

Reset – Reboots the set-top box.

Next – Stops the current video and starts the next video selected.

Enter – Press **enter** to change from karaoke to movie and vice versa.
Press **enter** to erase title 0.
Press **enter** after entering karaoke or movie title is completed.

View/Menu – After all karaoke or movie titles are entered, press this key to start playing video.
During video play, when this key is pressed, menu screen would come on and video titles can be added or edited. Press this key again to start playing the video.

Up/Down/Right/Left arrow keys – Moves the cursor (indicated by gold color) up or down, right or left.

0-9 number keys – Numbers are used to identify video titles.

FIG. 4

00507-30456960

Turn on set-top
box

~502

Display menu

~504

User selects one
or more video/
karaoke selections

~506

User selects
control command
(e.g., view)

~508

Set-top box
deciphers infra red
control

~510

Control command
(e.g., view
command) sent to
CPU of set-top box

~512

Set-top box sends
view control
command to local
server

~514

Local server
receives signal
indicating
selection and
control command
(e.g., view)

~516

Local server sends
compressed
karaoke/video data
over network to
set-top box

~518

Set-top box
processes data
from local server

~520 (SEE FIG. 4)

FIG. 5

00507 00166960

User sings through microphone

User sings through microphone connected to set-top box

Send second
audio signal to A/D
converter

User selects audio control command (e.g., volume, echo, fader, pitch, harmony)

Singer's voice is processed by karaoke processor to create a modified second audio signal

Send modified
second audio
signal to D/A
converter

Send analog audio signal to amplifier

FIG. 6

000001 5015000

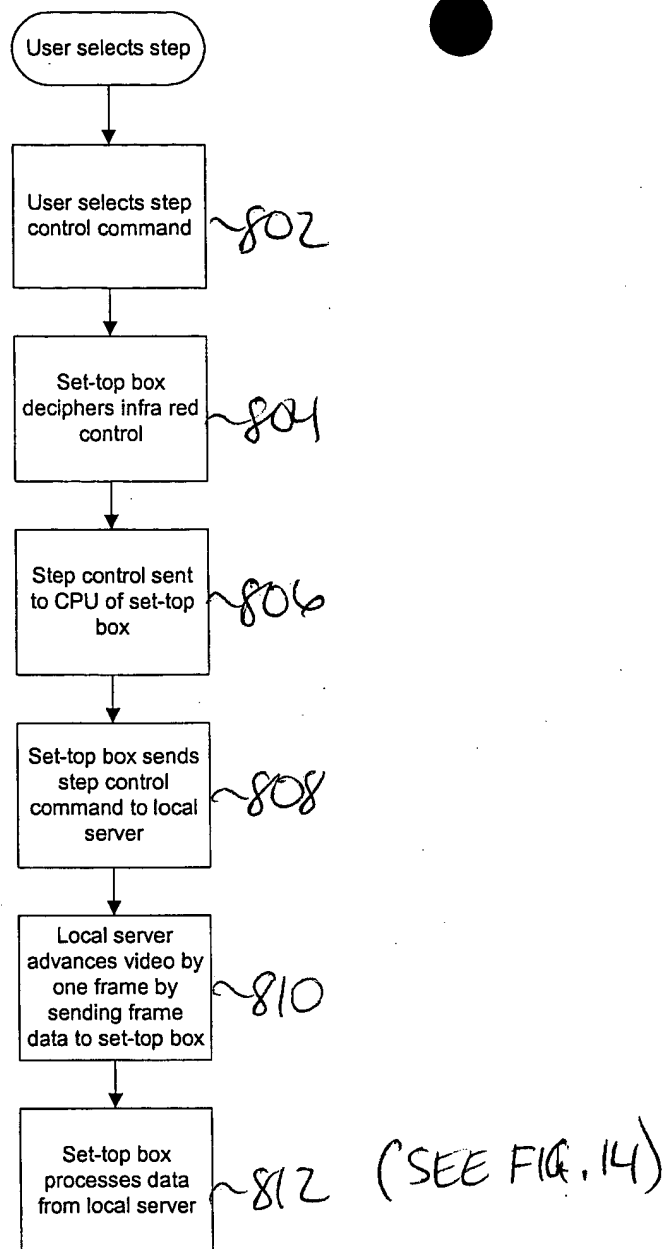


FIG. 8

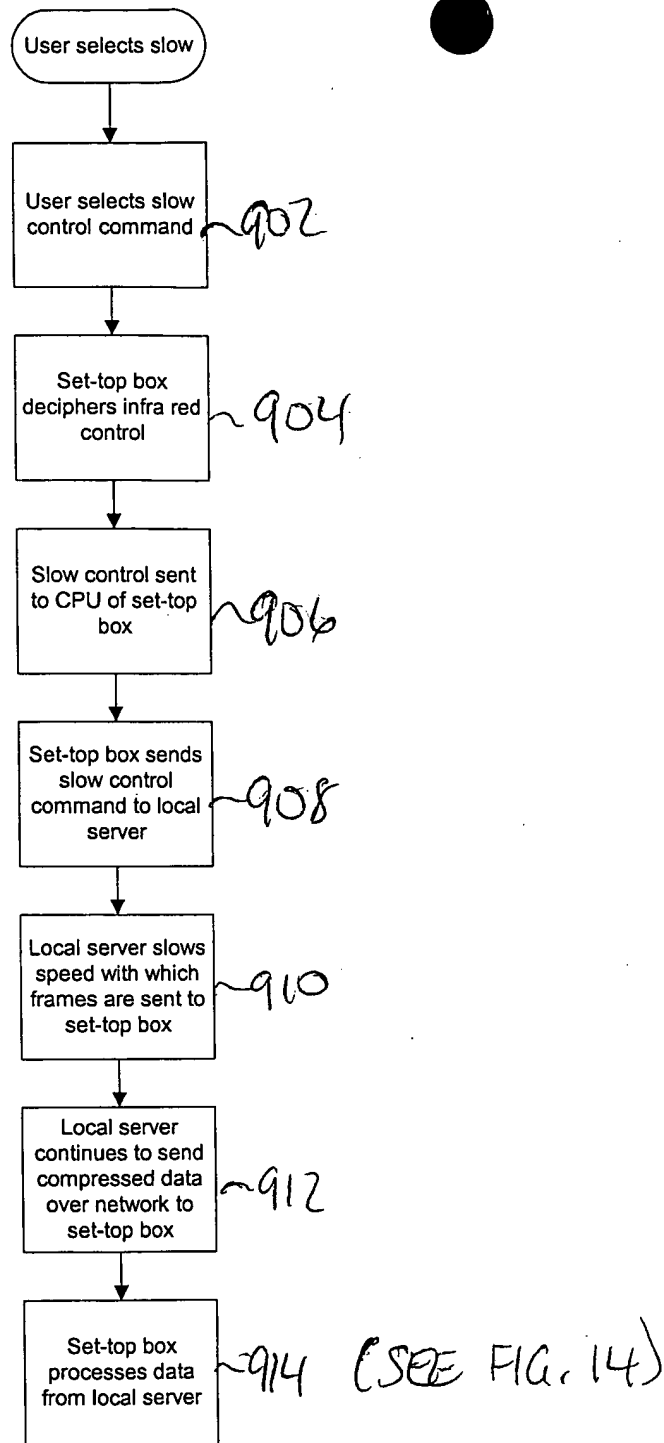


FIG. 9

User selects play from pause, step, or slow mode

User selects play control command

Set-top box
deciphers infra red
control

Play control sent to CPU of set-top box

Set-top box sends play control command to local server

Local server returns to normal speed with which frames are sent to set-top box

Local server continues to send compressed data over network to set-top box

Set-top box
processes data
from local server

Display percent
video/karaoke
selection played

FIG. 10

The Government of the City of New York
 and the City of New York
 do hereby certify that the within and foregoing
 is a true and correct copy of the original
 as the same appears from the records of the
 City of New York.

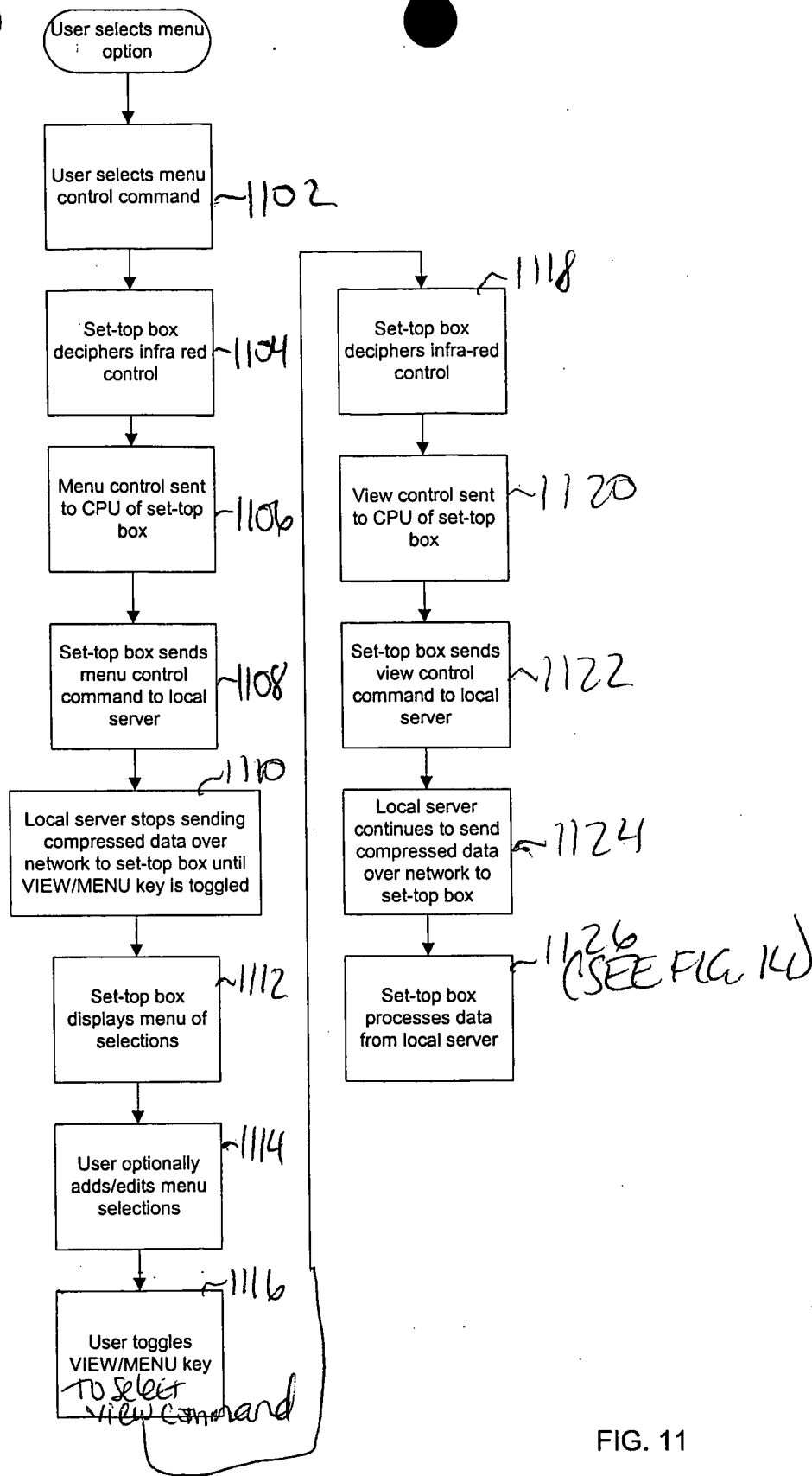


FIG. 11

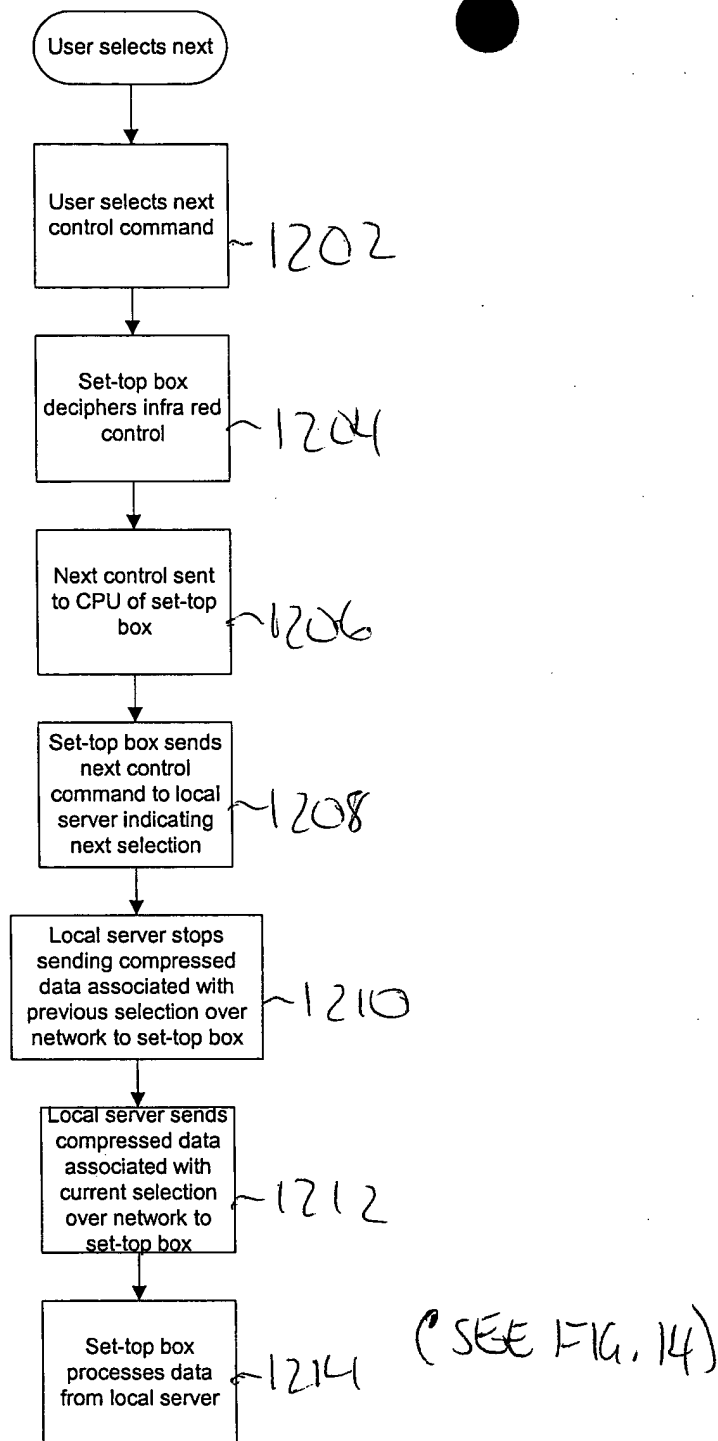
[illegible]

FIG. 12

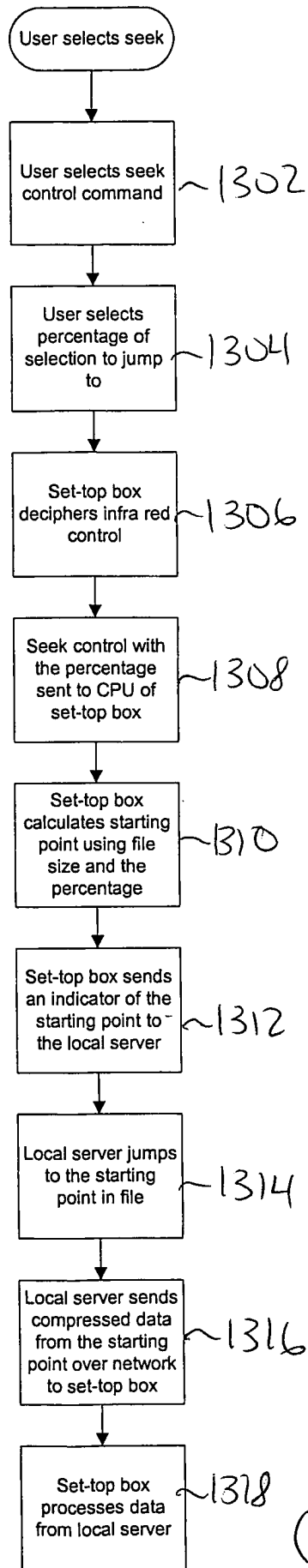


FIG. 13
(SEE FIG. 14)

Set-top box
processes data
from local server

Set-top box
receives
compressed data
from local server

MPEG decoder
chip
decompresses
video and audio
data in the
compressed data

Send decompressed video
signal to video encoder to
convert digital signal to
analog signal

Output analog
signal to TV/
monitor

Send
decompressed
first audio signal to
karaoke processor

Send processed
first audio signal to
D/A converter

Send analog audio
signal to amplifier

FIG. 14